# DATA SHEET

Three Phase Induction Motor - Squirrel Cage

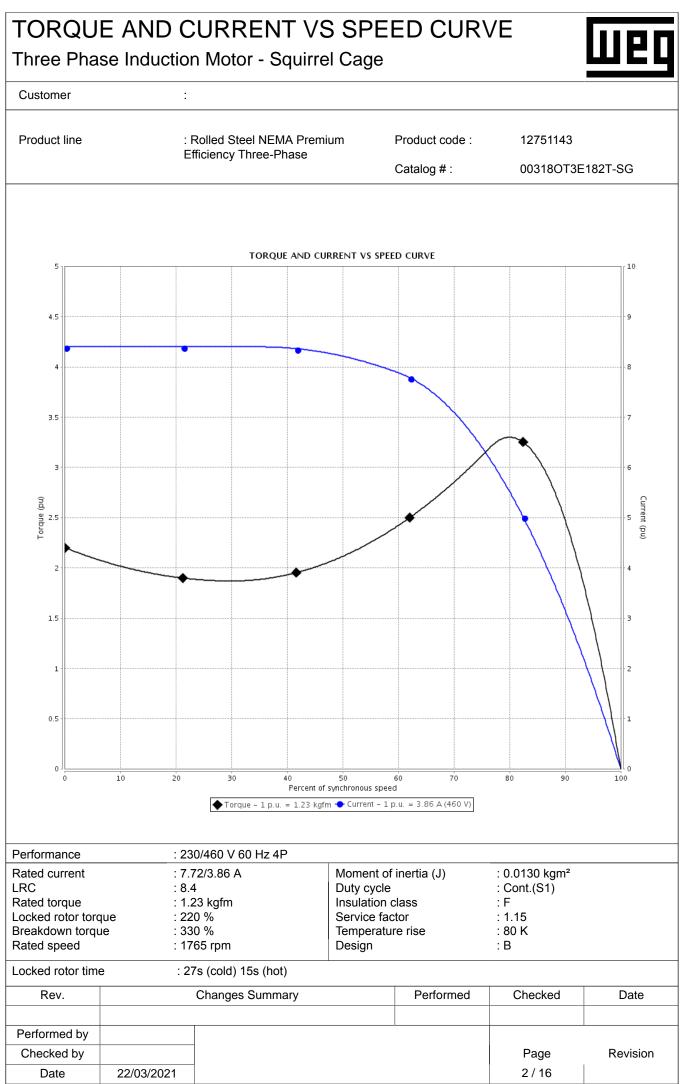
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#### Customer

			: Rolled Steel NEMA Premium Efficiency Three-Phase		roduct code :	12751143		
				Catalog # :		00318OT3E	182T-SG	
Frame		: 182/4T		Cooling m	nethod	: IC01 - OD	P	
Insulation class		: F		Mounting		: F-1		
Duty cycle			Rotation <sup>1</sup>		: Both (CW and CCW)			
Ambient tempera	ature	: -20°C to +40°C	;	Starting m		: Direct On Line		
Altitude		: 1000 m.a.s.l.		Approx. w		: 31.6 kg		
Design	Design : B		Moment c	of inertia (J)	: 0.0130 kg	m²		
Output [HP]		3			3		3	
Poles		4		4			4 50	
Frequency [Hz]		60	20	50 190/380			220/415	
Rated voltage [V]		230/46						
Rated current [A]		7.72/3.		9.08/4.54			8.41/4.46 59.7/31.7	
L. R. Amperes [A]		64.8/32		58.1/29.1				
LRC [A] No load current [A]	1	8.4x(Cod	,		6.4x(Code H)		(Code J)	
		4.14/2.		2	4.08/2.04		20/2.22	
Rated speed [RPN	/I]	1765		1460			1465	
Slip [%] Bated tergue [kafa	ol	1.94		2.67			2.33	
Rated torque [kgfn Locked rotor torqu		1.23			1.49 150		1.49 170	
Breakdown torque		220			240		280	
Service factor	[/0]	330 1.15			1.15		1.15	
Temperature rise		80 K			80 K		1.15 80 K	
Locked rotor time		27s (cold) 1		0.0 //	cold) 0s (hot)		ld) 0s (hot)	
Noise level <sup>2</sup>		55.0 dB			3.0 dB(A)		0  dB(A)	
	25%	86.4	• •	5	85.6		88.0	
	50%	87.5			86.0	87.3		
Efficiency (%)	75%		88.5		86.5		87.9	
	100%	89.5			86.7		86.9	
	25%	0.35			0.42		0.37	
	50%		0.60		0.68		0.63	
Power Factor	75%		0.73		0.79		0.76	
	100%	0.80			0.85		0.82	
			lon drive end	Foundatio		1		
Bearing type		: 6206 ZZ				: 71 kgf		
Sealing		: Without	Without	Max. traction Max. compression		: 103 kgf		
Joanny		Bearing Seal				. 100 Kgi		
Lubrication interv	val	: -	-					
Lubricant amoun		: -	-					
Lubricant type		: Mobil Pol	Mobil Polyrex EM					
Lubricant type			-					
••								
Lubricant type Notes USABLE @208V	8.54A SF 1.	00 SFA 8.54A						
Notes USABLE @208V This revision repla must be eliminate (1) Looking the m	aces and car d. otor from the m and with t veight subjec	ncel the previous of shaft end. olerance of +3dB(/				based on tests w le tolerances stipu		
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Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful	aces and car d. otor from the m and with t veight subjec ocess.	ncel the previous of shaft end. olerance of +3dB(/ t to changes after	A).	power sup	ply, subject to th	ne tolerances stipu	lated in NEMA	
Notes USABLE @208V This revision repla must be eliminate (1) Looking the m (2) Measured at 1 (3) Approximate v manufacturing pro (4) At 100% of ful Rev.	aces and car d. otor from the m and with t veight subjec ocess.	ncel the previous of shaft end. olerance of +3dB(/ t to changes after	A).	power sup	ply, subject to th	ne tolerances stipu	lated in NEMA	

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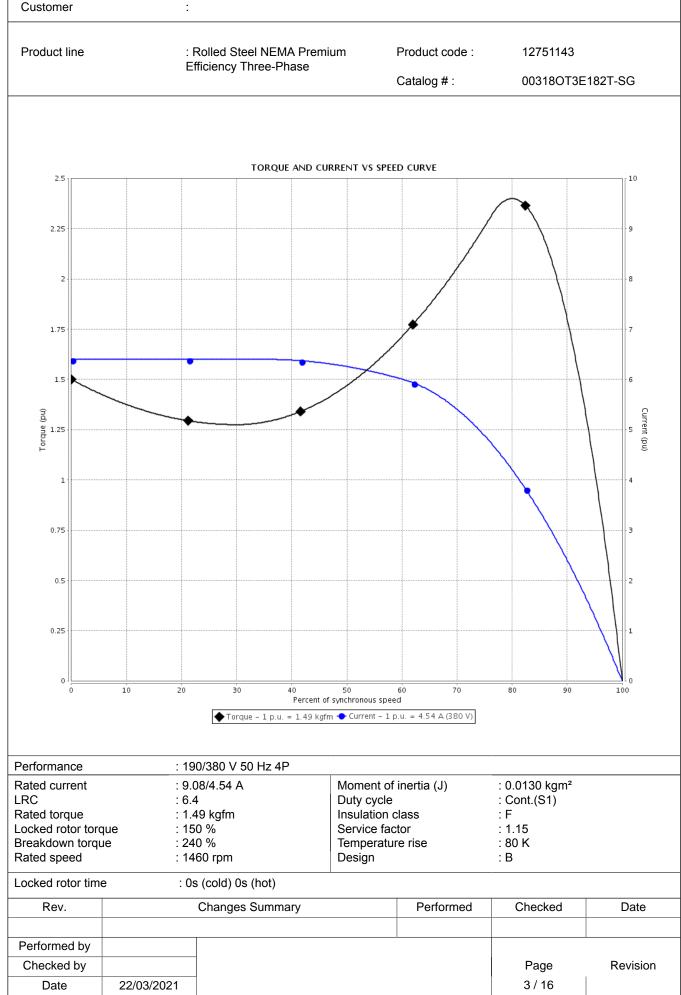


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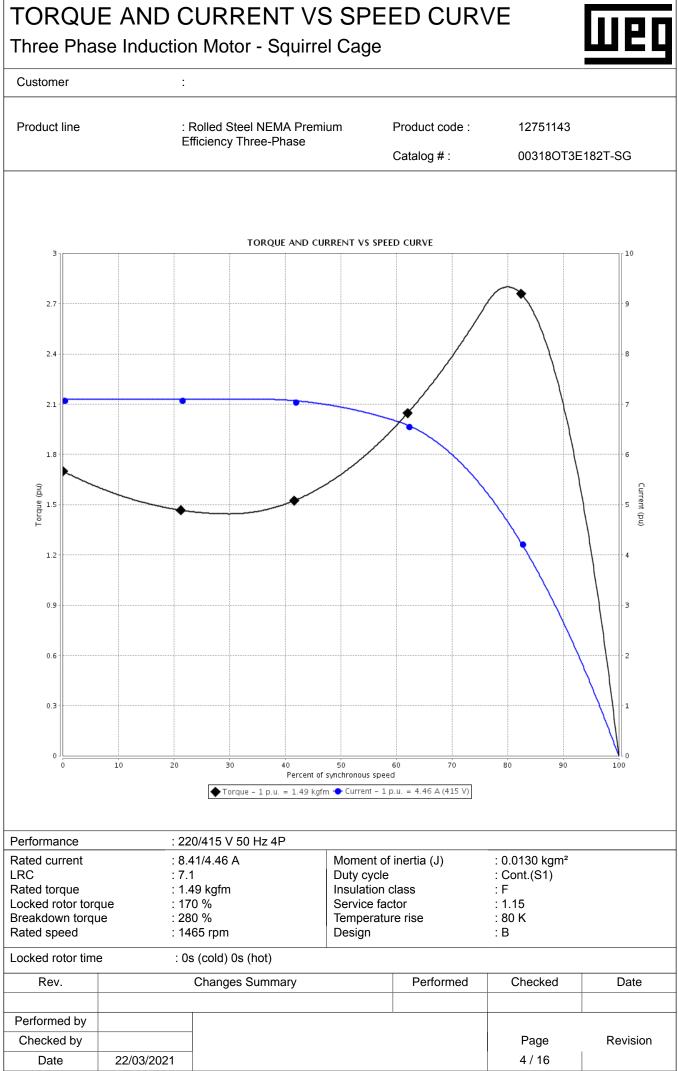
#### TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

#### Customer



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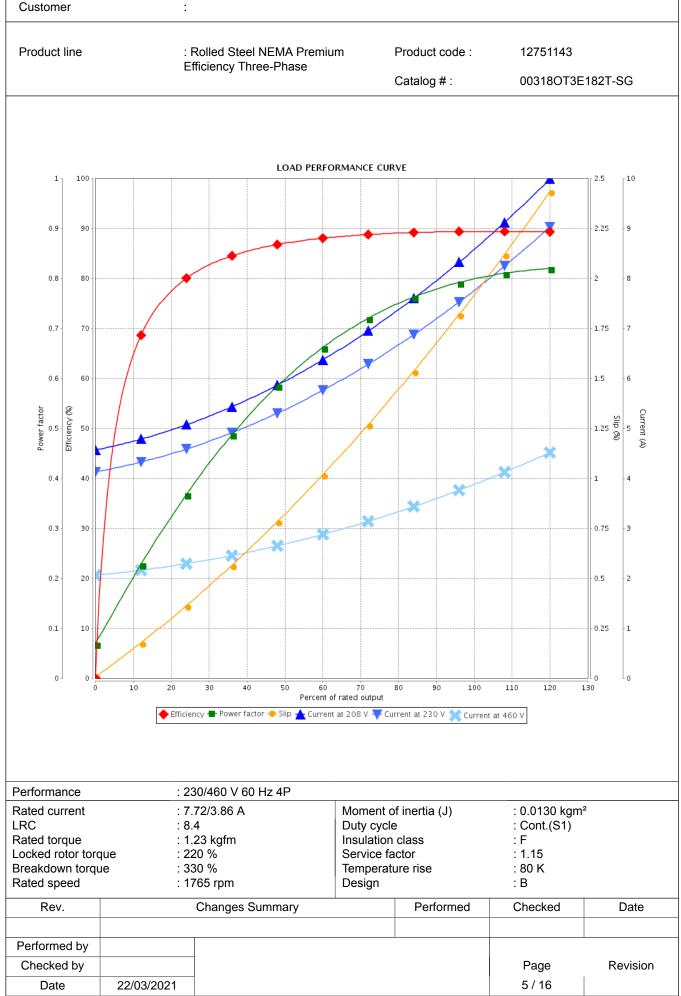


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## LOAD PERFORMANCE CURVE

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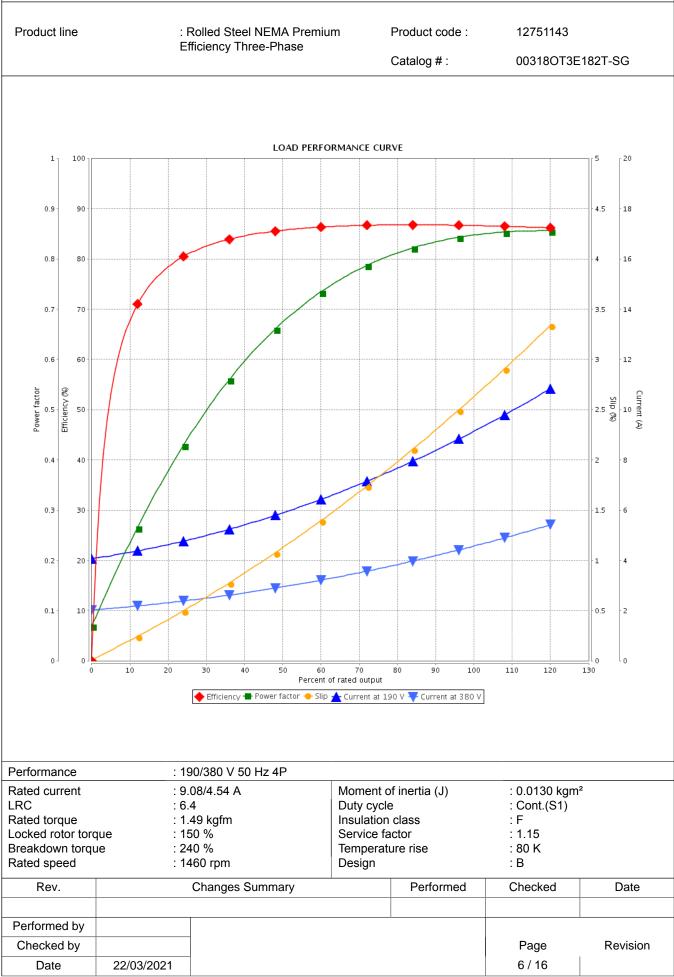
#### LOAD PERFORMANCE CURVE

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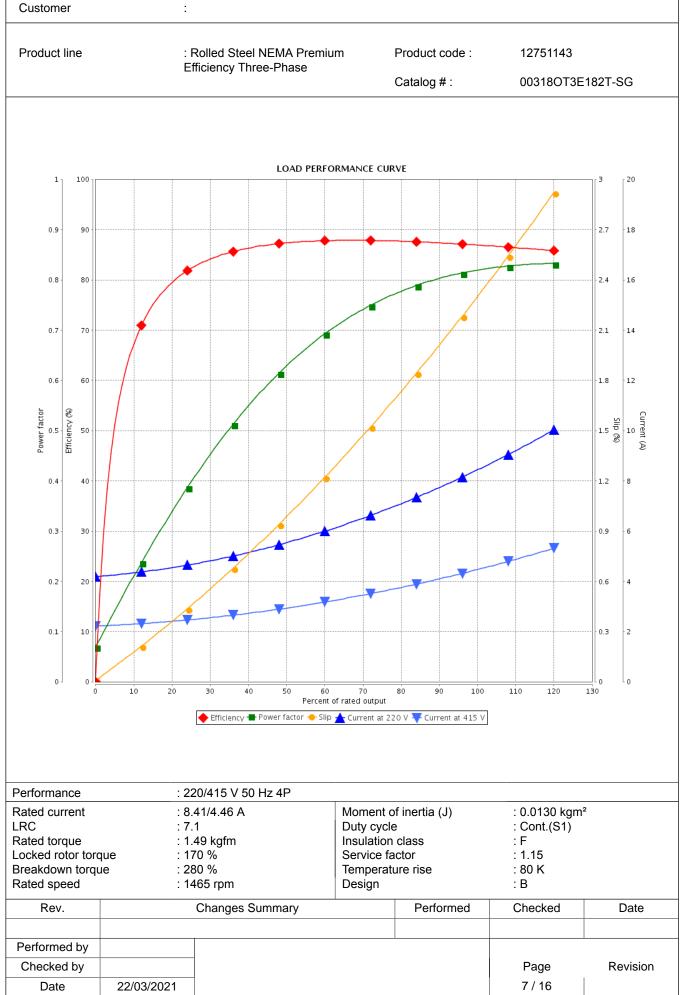
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### LOAD PERFORMANCE CURVE

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### THERMAL LIMIT CURVE

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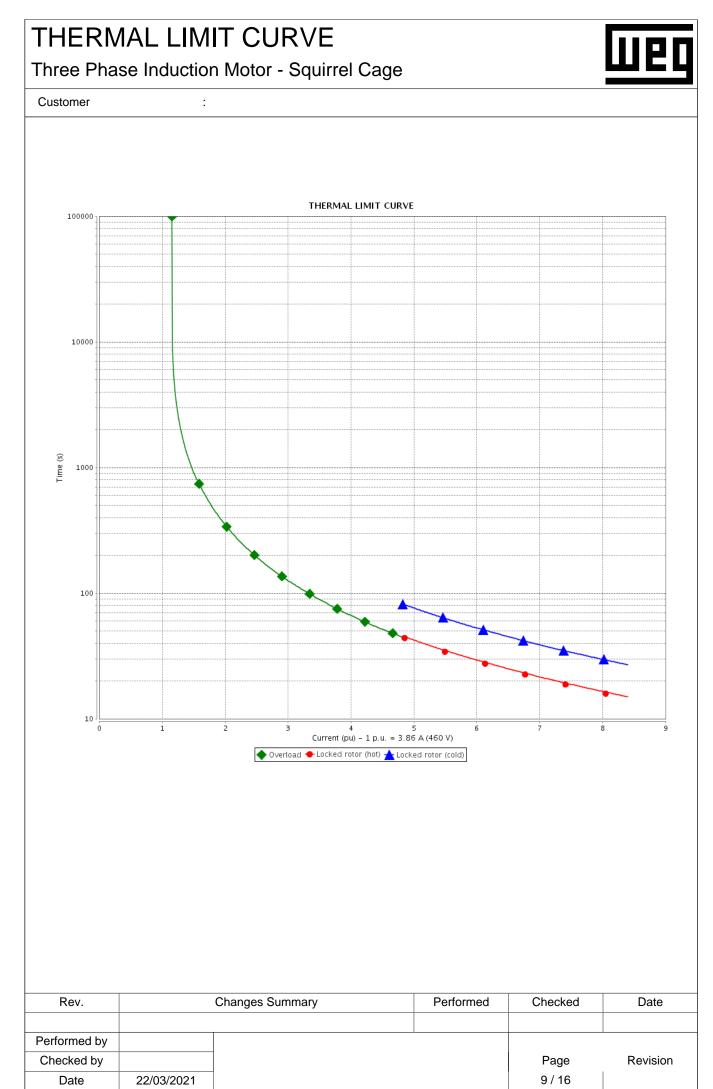


Customer

Product line		: Rolled Steel NEMA Premium		Product code :	12751143		
	E	Efficiency Three-Phase		Catalog # :	00318OT3E1	00318OT3E182T-SG	
Performance		30/460 V 60 Hz 4P					
Rated current	: 7. : 8.	72/3.86 A	Moment o	of inertia (J)	: 0.0130 kgm <sup>2</sup>		
LRC Rated torque		.23 kgfm	Duty cycle Insulation	- class	: Cont.(S1) : F		
Locked rotor torq	ue : 22	20 %	Service fa	ictor	: 1.15		
Breakdown torqu		30 % 765 rpm	Temperate	ure rise	: 80 K : B		
Rated speed		765 rpm	Design		. D		
Heating constant							
Cooling constant		Changes Summers		Dorformer!	Chastis	Data	
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### THERMAL LIMIT CURVE

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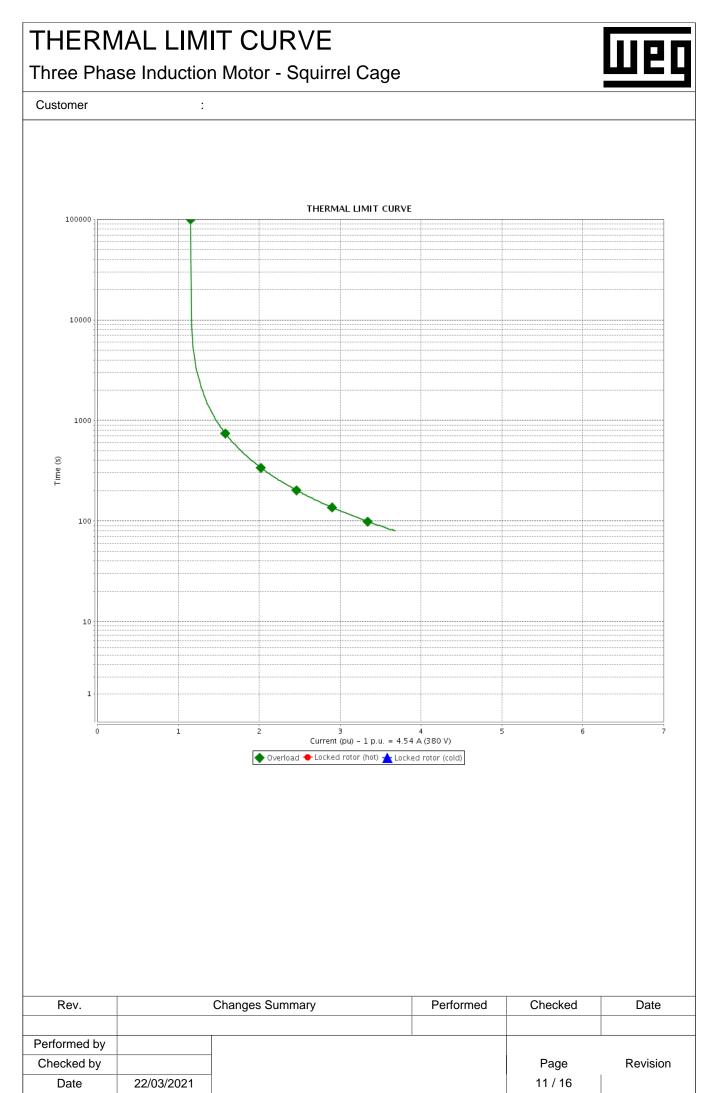
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Customer

Product line		Rolled Steel NEMA Premiur	n	Product code :	12751143		
	E	Efficiency Three-Phase		Catalog # :	00318OT3E	00318OT3E182T-SG	
Performance	: 1	90/380 V 50 Hz 4P					
Rated current		.08/4.54 A	Moment of	of inertia (J)	: 0.0130 kgm <sup>2</sup>		
LRC Rated torque	: 6	.4 .49 kgfm	Duty cycle Insulation	elass	: Cont.(S1) : F		
Locked rotor torg		50 %	Service fa		: 1.15		
Breakdown torqu	ie : 24	40 %	Temperat	ure rise	: 80 K		
Rated speed	: 14	460 rpm	Design		: B		
Heating constant							
Cooling constant							
Rev.		Changes Summary		Performed	Checked	Date	
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Performed by Checked by		-			Paga	Revision	
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### THERMAL LIMIT CURVE

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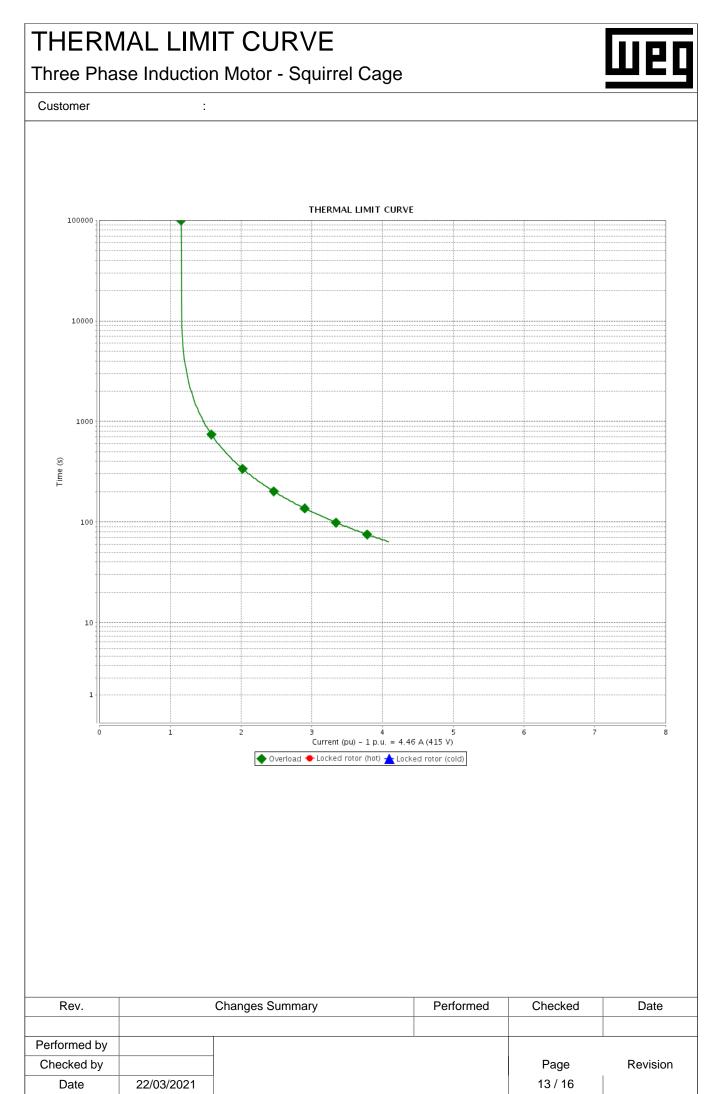


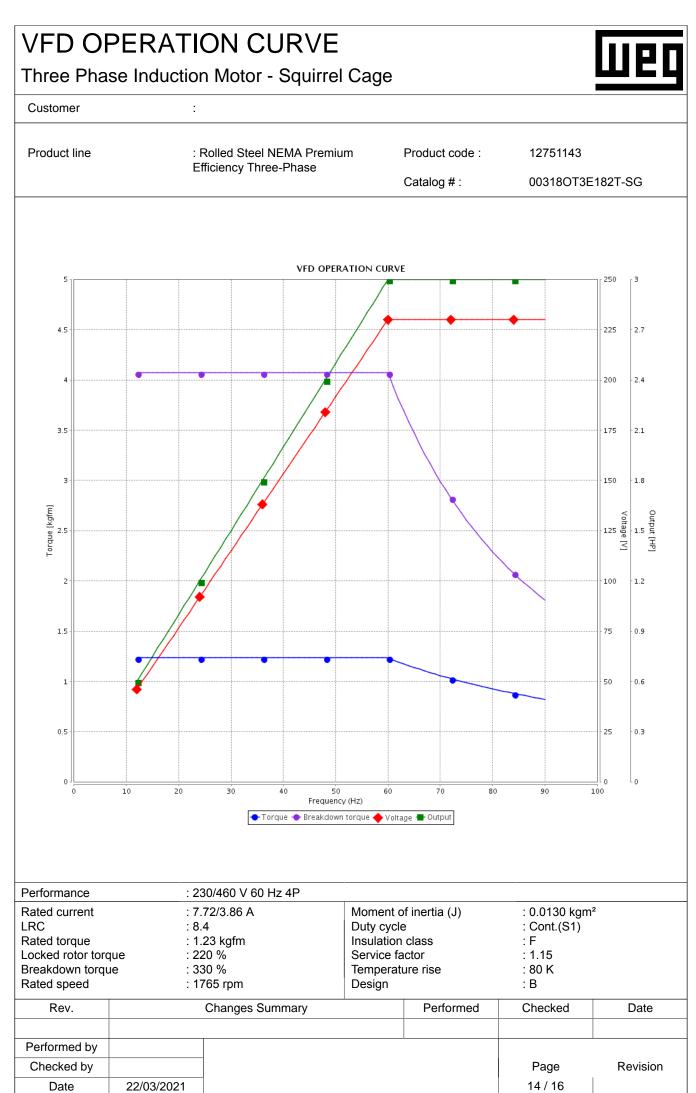
Customer

Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase		Product code : Catalog # :	12751143 00318OT3E1	12751143 00318OT3E182T-SG	
Performance	: 22	20/415 V 50 Hz 4P					
Rated current		41/4.46 A	Moment o	of inertia (J)	: 0.0130 kgm <sup>2</sup>		
LRC	: 7.		Duty cycle	e	: Cont.(S1)		
Rated torque Locked rotor torq		49 kgfm 70 %	Insulation Service fa		: F : 1.15		
Breakdown torqu		30 %	Temperati		: 80 K		
Rated speed		465 rpm	Design		: B		
Heating constant							
Cooling constant							
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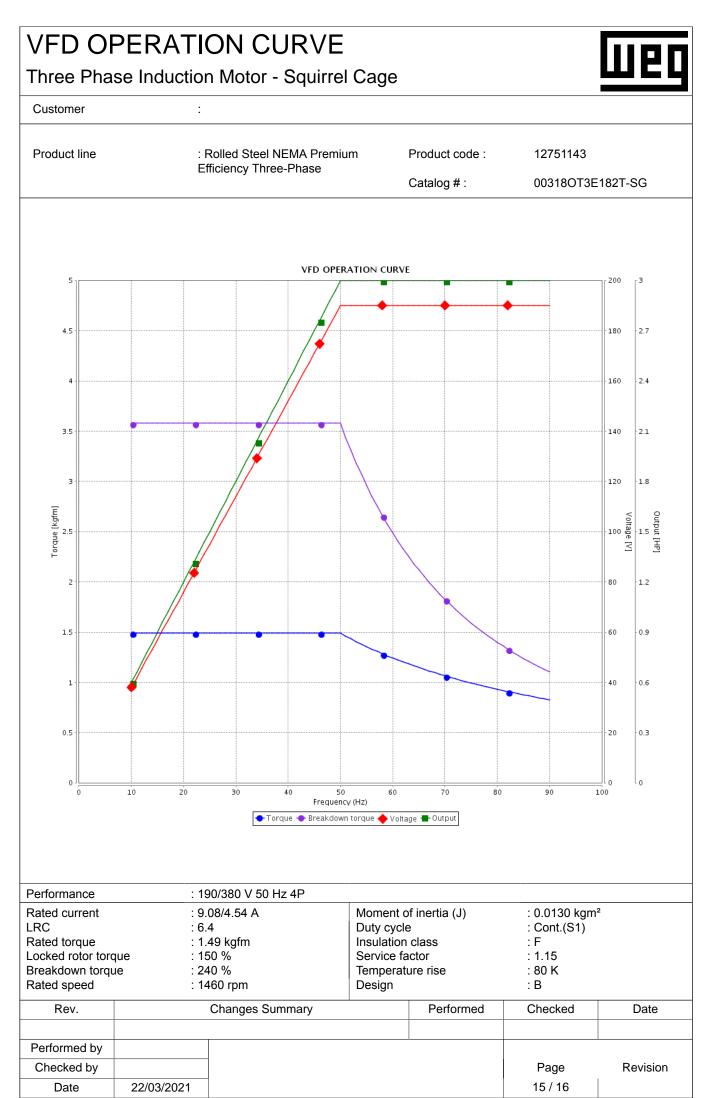
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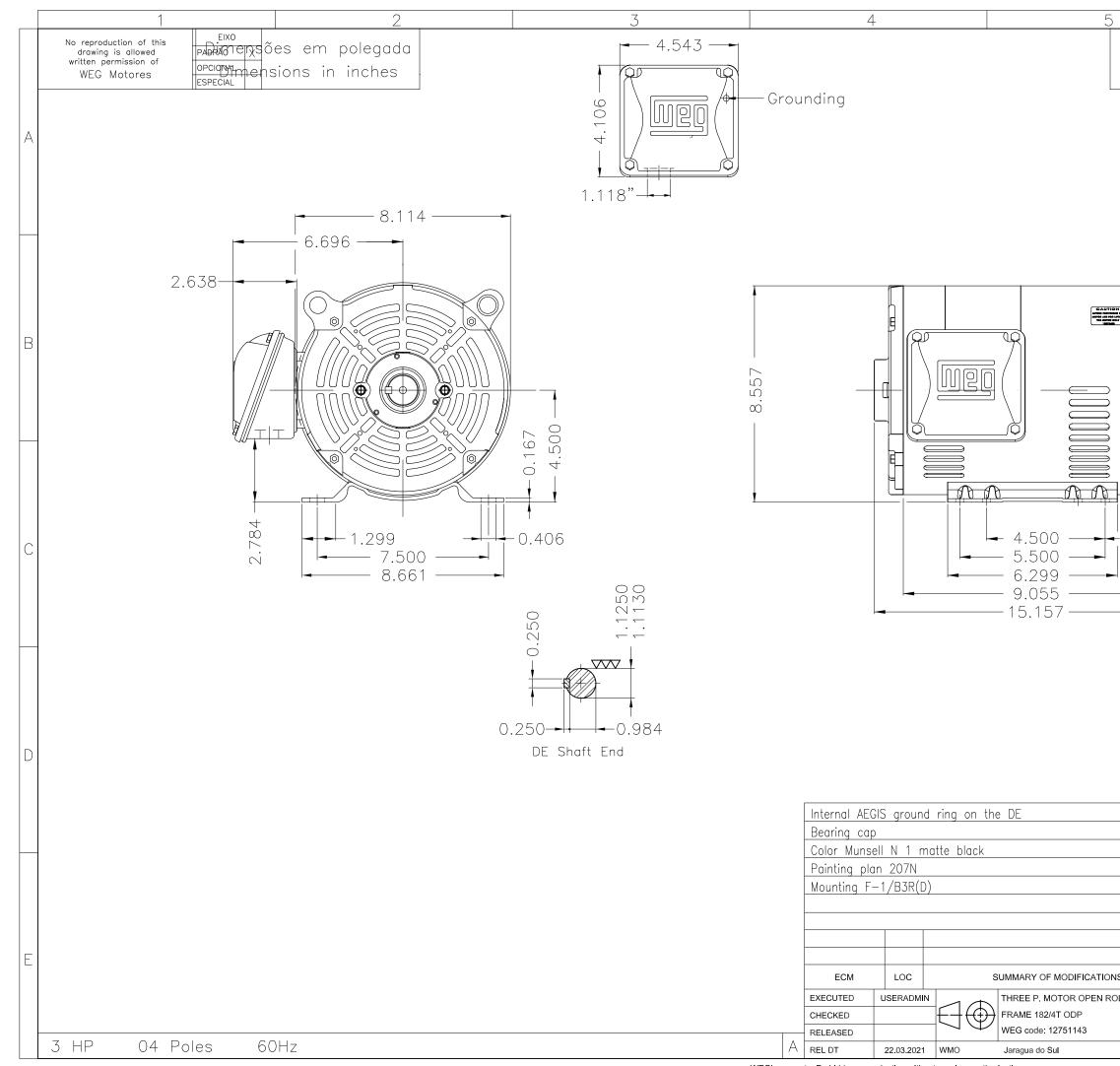
#### **VFD OPERATION CURVE** Three Phase Induction Motor - Squirrel Cage Customer : Product line : Rolled Steel NEMA Premium Product code : 12751143 Efficiency Three-Phase Catalog # : 00318OT3E182T-SG VFD OPERATION CURVE 250 г3 2.7 225 4.5 200 2.4 175 2.1 3.5 150 18 З Torque [kgfm] Voltage [V] 1.5 [HP] 2.5 100 1.2 2 1.5 75 0.9 50 0.6 1 0.5 25 0.3 0 0 0 10 zo 30 40 50 60 70 80 90 100 Frequency (Hz) 🛨 Torque 🖜 Breakdown torque 🔶 Voltage 🖶 Output Performance : 220/415 V 50 Hz 4P : 0.0130 kgm<sup>2</sup> Rated current : 8.41/4.46 A Moment of inertia (J) LRC : 7.1 Duty cycle : Cont.(S1) Insulation class Rated torque : 1.49 kgfm : F Locked rotor torque : 170 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

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